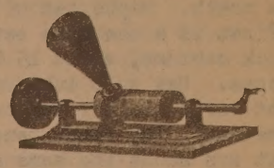
Vol.VI No.7 Sept. 1977 Monthly except during July and August Price $5.50 yearly Single Issue 75¢ Publisher, Jim Cranshaw

Second-class postage paid at Dallas, Texas Office Address: 9820 Silver Meadow Drive, Dallas, Texas 75217 214-286-1673

THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

# THE HORN SPEAKER



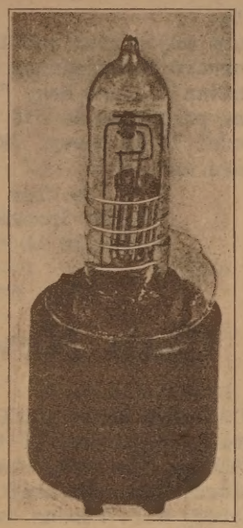
PHONOGRAPH CENTENNIAL
1877 - 1977

RADIO WORLD April 4, 1925

# Sodion Tube

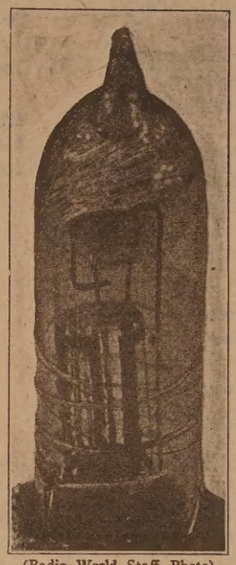
THE new Sodion tube, known as the D21.

*The original Sodion tube, product of the Connecticut Telephone & Telegraph Co., was non-oscillating, hence could not be used in regenerative sets. This of course gave no satisfaction to DX hounds who preferred sets with very few tubes in them. The new Sodion tube, however, is of the oscillating kind.*



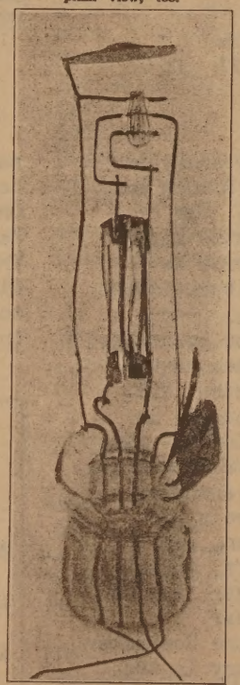
(Radio World Staff Photo)

THE TUBE with the frosted glass outer shell or envelope removed. The outer envelope is not airtight, but the internal envelope, here shown exposed to view, is hermetically sealed. Note the extra filament wire or heating apparatus wound outside the "inner tube."



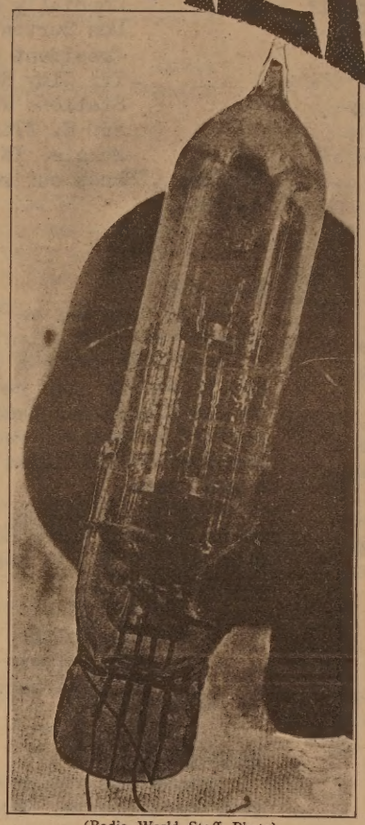
(Radio World Staff Photo)

A CLOSEUP, showing the shape of the grid to be cylindrical. The plate is in plain view, too.



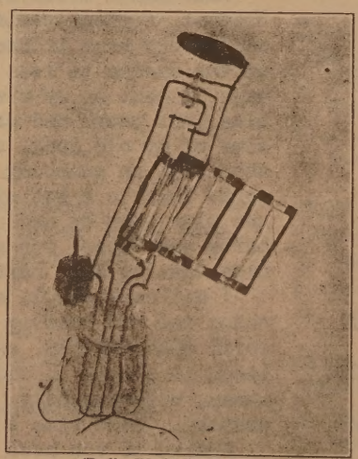
(Radio World Staff Photo)

THE INSIDE of the tube exposed. Note the cylindrical grid, with the plate atop. The leads are separated from one another by a seal. The four leads are brought down through the base of the tube, as usual, to tips. In this photo the leads are shown severed from the tips. Also, the extra filament wrapping has been removed. The A battery heats both the extra resistance wire and the filament. The object of the special resistance is to keep the tube at correct temperature for highest efficiency.



(Radio World Staff Photo)

THE TUBE TORN from its base. The cylindrical grid is again plainly visible, as is the extra heating wire or special resistance, although this looks a bit ragged, due to the proximity of the lens to the tube. Note the "lamp shade." The filament is straight and is suspended inside the tube. The other connections are to a disc that serves a secret purpose.



(Radio World Staff Photo)

UNFOLDING the plate we see the nature of its parallel construction. The filament leads are in the center. The lead at left goes to grid and the one at right to plate. Plate, filament and grid leads find a common capacitative rendezvous in the seal under the "lamp shade," which may partly account for the smooth regeneration control, not forgetting the use of sodium. The filament is tungsten.

## *By Sidney E. Finkelstein*

*Associate, Institute of Radio Engineers*

THE NEW Sodion tube, known as the D21, unlike its predecessor, is an oscillating tube, therefore functions in a regenerative circuit. It may be used only as a detector. Its chief advantages, from the results basis, are greater sensitivity as a detetcor than the UV200 and C300, which have been regarded as the acme of sensitivity, current consumption of only .25 ampere, and smooth regeneration control. Unlike the two other tubes mentioned, the Sodion will permit signals being heard over a wide variation of the tickler dial or other regeneration control. On strong stations the signal is audible over the entire variation of the tickler or impedance tuning element. Thus, if one is so minded and is satisfied with some sacrifice of distant-getting, the conventional 2-control regenerative set, the 3-circuit tuner for instance, may be used as a single-control set. The tickler position is compromisingly set at that angle that gives no trouble on the low waves, then the variable condenser dial is tuned as usual, without disturbing the tickler, however. For local stations this works pretty well, hence the radiation nuisance is abated in this respect. But as between stations widely separated on the wavelength dial much better volume will be obtainable with the feedback exactly controlled.

The D21 is a great companion tube to the S13 (the original and non-oscillating and Sodion tube). The new tube can be substituted as detector in any standard receiving set using storage battery for filament supply, whether the circuit be regenerative, radio-frequency before the detector or a Super-Heterodyne.

The new tube is quite different from the old one, both in construction and in electrical characteristics. It can be made to oscillate easily and smoothly and will fit a standard socket.

The new tube has an outer frosted glass shell which is provided simply to facilitate handling of the tube. Inside the large glass case, which is not airtight, is the tube proper, an airtight glass envelope around which a special resistance coil is wound.

Inside this glass tube are the filament, grid and

(*Concluded on page 36*)

spiral wires surrounding the straight filament suspended inside the tube.

The resistance coil wound around the tube is connected in series with the filament, and heats up the tube to the correct operating temperature. When the tube is first lit it will operate, but after burning for a minute or two it is in full operating condition.

When a grid leak is used the grid return must be connected to the negative side of the filament. The use of a variable leak proved advisable.

When the tube is used without a grid leak, then the grid return may be connected to either side of the filament. The rheostat is placed in the negative lead.

When this tube was used in a regenerative receiver results were very good. In a non-regenerative the tube was a very good detector, being very sensitive on weak signals and good on loud ones.

The tube was then tried in a radio-frequency amplifier as the detector tube and operated the receiver well.

The filament has a drop of 2.6 volts and the heating coil a drop of 2.4 volts. They are in series, so the tube voltage is 5, just about the same as the 201A. It is the first tube to use a tantalum filament instead of tungsten.

Both grid and plate are cagge construction, open cylinders of parallel wires.

The S13, or the new S14 (the same tube with standard base) serves as well for a non-regenerative stage, and is splendid for reflex sets, only as detector, however.

The manufacturers give this information concerning the tube:

"When the tube is first lighted, immediate operation will be secured but its sensitivity will gradually increase for about two minutes, which will, in some cases, make it desirable to slightly readjust the filament current after the tube has been for a short time in operation.

"The D-21 requires a current of approximately .25 ampere and a potential of 5 volts. It can be operated on four dry cells or on a six-volt storage battery. For best regulation of filament current the rheostat should have a resistance from ten to fifteen ohms.

"In applying the D-21 to any receiving set it is desirable always to try various values of "B" battery since this value, for best operation, will depend to a certain extent upon the type of circuit used. The "B" battery voltage is not critical and the best value will be between 22½ and 60. In receiving sets where there is no regeneration in the detector circuit the best detection will be varied at each different "B" voltage of 22½ volts but if the circuit is of regenerative type, 45 volts or more will give superior results. The filament current should be varied at each differtn "B" voltage although this latter adjustment is not critical and can be varied throughout a wide range without a material effect upon the signals. The correct adjustment of filament current is very simple since if the filament is lighted too brightly, a hiss will be audible in the receivers. This is due to too much filament current and it should be reduced to that point where the hiss just disappears to where the signals are perfectly clear."

# FIND OF THE MONTH

I have what may be the find of the month. Maybe two of them.

First is a one tube set in a black cabinet, about 15 by 7 by 7 inches. Has a 30 tube, and Atwater Kent vario-coupler and two AK variometers. The front panel and circuit are about the same as the Grebe CR-8, with the exception of the band switch and condensers. Wonder if this is a kit?

The other one is a black "cathedral" model, 4 tube, 6B7, 6F7, 41, and 80 rectifier. No identity except the word GEM on the bottom part of the dial plate or escutcheon. This set is about 15 inches high in front.

Can anyone help me out on these two sets?

73

Oscar E. Hager, Sr.
Rt. 1, Box 368
Goodman MO 64843

I happen to get a real prize a couple of weeks ago, at a Tag Sale out here on the L.I. An Atwater Kent Breadboard set without tubes, in mint-condition for (twenty-five dollars) put four 301-A tubes in it, hooked it up to a car battery and home-made B-supply and worked perfectly, (good catch), a good thing the people that had it didn't know anything about it. (Close call).

Edward P. Remski
90 Orchard St.
Plainview N.Y. 11803

# LETTERS

Dear Jim:

Since it appears that there is no Historical or Antique Radio Society in the State of New Jersey, I would like to form one. Therefore, I would like to have all interested parties, collectors, etc., contact me in regard to forming same.

You are doing a great job with the Horn Speaker and we enjoy reading it immensely.

Sincerely yours,
AMAZON EXPLORERS
Richard G. Brill
Route 9
Parlin N.J. 08859

Dear Radio Friends:

I recently completed 50 years of continuous association with Radio Station WLBC which I founded in 1926. I have a very small collection of items relating to this 50 year span of broadcasting.

Among some of the memorabilia is a tiny collection of broadcast type microphones among which are Western Electric and RCA condenser type mikes. (one each). Not long ago this microphone collection also included one Western Electric 387W and one Western Electric 600A double button carbon microphones - these have since been stolen from our offices.

I am anxious to get replacements for these carbon microphones. Do you know of anyone who, owning such equipment, might be willing to sell it? If not; could you suggest any other source to which I might write to inquire about such a purchase?

...I thank you in advance for your consideration of this request.

Cordially and sincerely,
Don Burton
President and Treasurer
Tri City Radio Corp.
Stations WLBC and WLBC-FM
820 E. 29th St.
Muncie IN 47302

EDITOR...I know our readers will be helpful.

Dear Jim:

It is time for me to renew. I enjoyed every issue last year.

This year our AWA Chapter will put on an old time radio exhibit at the Clearwater Sand Key Sheraton during the Amateur radio convention November 19-20. Last year we had a good time.

Find of the month, Golden Lutz trans Oceanic and a Duck catalogue. Best of all got to meet by mail some collectors.

Best 73's
John Smith
1924 Dolphin Blvd.
St. Petersburg FL 33707

Dear Jim:

Thanks for printing my story in your April issue. Sorry I took so long to thank you for it. The article apparently generated some interest among your readers, as some of them have gotten back to me on it.

Last month I was at the Rochester Hamfest, a giant radio flea market held every year in Rochester, N.Y. on the second to last Saturday in May. I went up as a seller the first time this year, and made $120 selling some of my old junk, and spending about $30 on somebody else's old junk! This is a lot of fun, and I can play with my new stuff, mostly parts and tubes, for a year, and decide what to sell next year.

I met some people at the Rochester thing who had read my story in the April HORN SPEAKER, and they all liked it a lot. I didn't take their names, unfortunately, which was a mistake. Next time I will.

Again, if you need any editorial material for the HORN SPEAKER, let me know. Perhaps you could set up a reader's exchange column, which would be a thing wherein readers with problems could exchange ideas on the restoring of radios, or the understanding of particular technical problems. (I realize this may clash with some of the advertisers who do the same for money). But the column would be more of a personal thing and would handle particularly difficult problems. Anyway, it's an idea.

Sincerely,
Richard Modafferi
R.D. 1, Skyline Dr.
Vestal N.Y. 13850

Editor....It's a good idea.

Dear Jim:

I sure enjoy your publication and look forward to receiving each copy.

We haven't found many "old radios" in these parts but we did pick up an A.K. Model 10 in Dewey, Oklahoma a few weeks ago.

E. A. Heckler
1314 N. Sparkman St.
Hartselle AL 35640

# Club News

NEW ANTIQUE RADIO ASSOCIATION

Several collectors of the Capital Area, Albany New York, have formed a Collectors Club. We meet at the Schenectady N.Y. Museum every other month. Any local collectors interested in joining our club are asked to phone Tom McCarthy, WGY, 385-1385, repeat 385-1385; or W2FW Jack Nelson, 355-6997, repeat 355-6997.

BUCKEYE ANTIQUE RADIO & PHONOGRAPH COLLECTORS' CLUB OF OHIO

The next meeting is Sept. 11 at the home of Mr. Clifford Dew, 7730 Sagamore Hills Blvd., Northfield, Ohio 44067, Tel. 216 467-5709. Meeting time is around 2:00 PM. This is also our annual pot luck dinner, so everyone is requested to bring a covered dish (with food in it) and your own place settings


## BACK ISSUES
### The Horn Speaker

All 10 back issues for 1973...$8.00
Single issues...$1.00 each
All 10 back issues for 1974...$6.00
Single issues...$.75 each
All 10 back issues for 1975...$5.00
Single issues...$.75 each
All 10 back issues for 1976...$5.00
Single issue...$.75 each
Any single issue of 1977...$.75 each
Later, we should have complete volumes for 1972, first year.

**The Horn Speaker**
Box 12 Kleberg, Texas 75145

(plate and silverware). Members are also asked to bring items for show and tell.
NOTE: If at all possible please try to attend this meeting as Mr. Dew has a very large collection of early phonographs which are a must to see!

ANTIQUE RADIO CLUB OF AMERICA
Old Time Equipment Contest Results
ELMIRA, NEW YORK, JUNE 1977
The 1977 Winners

CLASS I
Regenerative Receivers
1. Ralph Muchow - Grebe CR4 and RORH 1919
2. John Caperton - Cutting & Washington 12A
3. Floyd Engels - Zenith 3R (Restored)
Jl. Dick & Ann Schamberger - Kennedy VI Type 421
Special Award: Ross Smith - Atwater Kent Breadboard #3975

CLASS II
TRF Receivers
1. John Caperton - Leutz Transatlantic Phantom
2. Gaylord Ewing - Stromberg-Carlson Hazeltine Neutrodyne
Jl. Dick & Ann Schamberger - Federal 27 w/blueprint, manual & catalog

CLASS III
Crystal Receivers
1. Ralph Muchow - Burndept Crystal Set
Jl. Ann Schamberger - Rigdjo Crystal Set
Special Award: John Caperton - French Spark Receiver

CLASS IV
Superheterodyne Receivers
1. John Caperton - Norden Hauck Adm. Super 10

CLASS V
Any receiver not in above 4 classes
1. Ralph Muchow - Sleeper 1-tube Slider
2. John Caperton - All Amax Jr. Reflex
3. Glenn Streeter - Sodion 3-tube Set
Jl. Thomas Soukup - Acmeflex with Loop
Special Award: Carol Muchow - Insuline

CLASS VI
Vacuum Tubes of Special Interest
1. Ralph Muchow - British Transmitting Tube

CLASS VII
Radio Test Equipment
1. Ralph Muchow - General Radio Precision Test Wavemeter
2. Jim Pragnell - Ayrton & Perrys Ammeter and Ayrton & Perrys Voltmeter
3. John Caperton - Gr 174 Wavemeter
Jl. John Garrison - Westinghouse Oscilloscope
Special Award: Daniel Gaidosz - Bench Tester, Circa 1912

CLASS VIII
Advertising Material of Early Manufacturing
1. Harry Barrett - RCA Advertising Doll

CLASS IX
Transmitters -- General Class
1. Allen Kuykendall - Transmitter Insulator
3. Mel Comer - Water-cooled Transmitter

CLASS X
Unique Loud Speakers
1. Ralph Muchow - Conch Shell Speaker

BEST IN SHOW - John Caperton - Leutz Transatlantic Phantom

SOUTHWEST VINTAGE RADIO AND PHONOGRAPH SOCIETY

The 1977 three-day meet of the Southwest Vintage Radio and Phonograph Society was filled with fun and heat. There was plenty of room for everyone, (about 150), even for all the out-of-towners who seemed to outnumber the locals. Except for the lack of air conditioning in the Texas heat, the atmosphere and displays of people and sets were beautiful.

The programs were good but they were scheduled in such a manner that caused a situation like a cat having to watch too many mouse-holes. Clarence Johnson, head of auction activities, said, "The auction was more of a collector's sale than a dealer sale." Battery sets sold for about $45.00. A.C. consoles sold for about $75.00. A crystal set sold for more than $70.00. An Edison Standard phonograph did not even bring a minimum bid of $240.00.

Of course, the celebrated hero was John Alford, who walked away with his arms full of trophies.

SOUTHWEST VINTAGE RADIO AND PHONOGRAPH SOCIETY
OLD TIME EQUIPMENT CONTEST RESULTS
Dallas, Texas, August 5, 1977
1977 WINNERS

BEST OF SHOW
John Alford - AK-10

CLASS I
Crystal Sets
1. Basil Abbott - DeForest
2. Glenn Streeter - Lalley Light Corp.
3. Kenneth Bruton - Amrad Duo

CLASS II
Battery TRF (pre 1930)
1. John Alford - A.K.-10
2. Bill Miller - A.K.-5A
3. John Murphy - Thermodyne TF6

CLASS III
AC Receivers (pre 1930)
1. O. H. McDonald - Apex Neutrodyne
2. John Alford - A.K.-40
3. Glenn Zook - Crosley-Showbox

CLASS IV
Regenerative Receivers (pre 1930)
1. Douglas Furney - Radiola II
2. Clarence Johnson - Colin B. Kennedy
3. John Alford - Radiola III

CLASS V
Super-Hetrodyne (pre 1930)
1. Gordon Thompson - Branston Kit
2. Kenneth Bruton - Leutz-Superhet
3. Glen Zook - Radiola VIII

CLASS VI
Components and Assemblies
1. Joseph Benne - Omnigraph Code Sender
2. Jim Cranshaw - Eico 1914 Potentiometer
3. Jim Collings - Magnavox Amplifier

CLASS VII
Loudspeakers (horn, etc.)
1. Glenn Streeter - Trimm Concert Speaker
2. Basil Abbott - Western Electric 76
3. Douglas Furney - Western Electric Horn Speaker

CLASS VIII
Homebrew and Kit
1. H. W. Balmer - Kilburn-Clark
2. Need identification - Tate
3. O. H. McDonald - English Homebrew

CLASS IX
AC Receivers, Table (post 1930)
1. John Alford - A. K.-84
2. Bill Bragg - R.C.A. Radio-Phonograph
3. George Potter - R.C.A. - 110 "Cathederal"

CLASS X
AC Console Receivers (post 1930)
1. Glen Zook - Howard AVH, Aneco Grand Cabinet
2. Gordon Thompson - Globe 1930 Chairside
3. J. W. Prater - Radiola 80

CLASS XI
Classic Receivers
1. June Puett - McMurdo Silver Masterpiece XII
2. None
3. None

CLASS XII
Ham Gear (pre 1940)
1. Jim Collings - Homebrew Spark XMTR
2. John Alford - National SW-3
3. Dave Medley - Hallicrafter SX-23

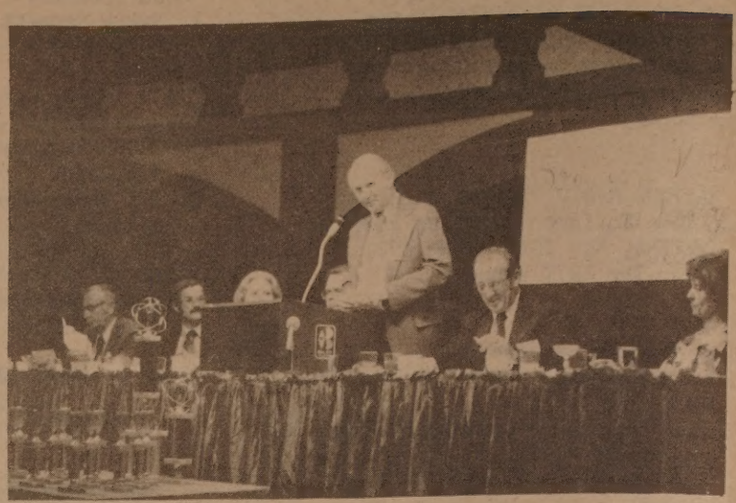
CLASS XIII
Phonograph (outside horn)
1. Ben Brown - Zonophone
2. Bill Boruff - Edison Standard
3. Henry Harris - Edison Standard

CLASS XIV
Phonograph (inside horn)
1. Bill Bragg - Edison 1917
2. Janet Parsons - Edison Amberola 50
3. None

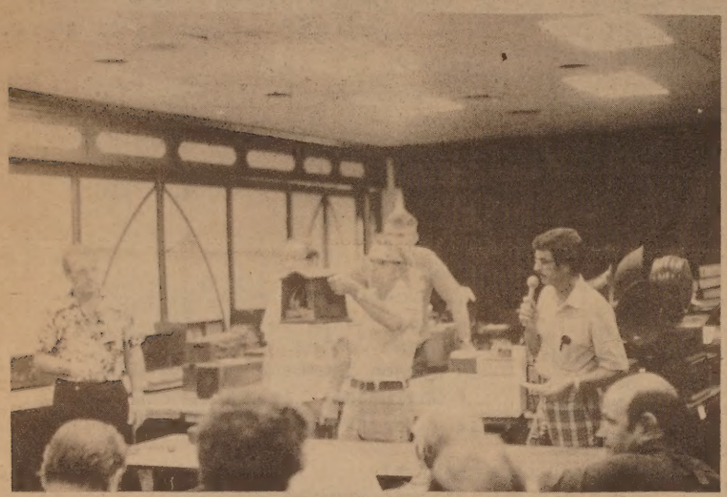
CLASS XV
Best of Display
1. Bill Boruff - Phonograph
2. John Alford - Crosley
3. Basil Abbott - Operating "breadboard"

VIEWS OF THE 77 MEET for the SOUTHWEST VINTAGE RADIO AND PHONOGRAPH SOCIETY

At a meet the members function, we clearly see Jim Collings, Ray Windrix and Morgan McMahon, who was the guest speaker at the banquet.



Ray Poindexter, a celebrated guest speaker, is telling about the old broadcast days.



Charles Lamb, auction ring man, displays an oldie while auctioneer, Jay Hauteman talks, Bob Sullivan to the far left listens.

Lady collector, Jan Parsons, presents her two fine old phonographs.

A partial view of the main display room. Yes, even an armed guard.

Morgan McMahon, guest speaker, gave a good talk about the benefits of radio collecting.

Radio Guide ●

November 5, 1938

# WEDNESDAY

## November 2

**3:15 CST 2:15 MST**

Stella Dallas, sketch (Milk of Magnesia): WSM WKY KOA WDAF KPRC WOAI WFAA KVOO

Columbia Concert Hall: KOMA WWL KTRH (sw-15.27)

Midstream, drama: KBIX KADA KGFF KVSO WLW KCRC WRR WACO KNOW KTAT

KGGM-Concert Master
KGNC-Closing Stock Reports
KMOX-Linda's First Love, sketch
KRLD-Sketches in Melody
KTSM-Betty & Bob
KWKH-Musical Prgm.

**3:30 CST 2:30 MST**

Life Can Be Beautiful, sketch (Ivory Soap): WDAF WLW

Club Matinee: News: WKY KPRC KTSM KGNC KFDM

Judy & Lanny: KOA

West & Matey, vocal duo: KNOW WACO KCRC

KADA-News
KMOX-Editor's Daughter, sketch
KPRC-Closing Markets: Musical Interlude
KTAT-Parent Teachers' Assn.
KTOK-Charles Evans, organist
KTSA-Home Town Editor
KTUL-Mary Lou Adams, songs
KVOO-Johnny Lee's Rhythmaires
WFAA-Vic & Sade, sketch
WOAI-Newscasts
WSM-Those Happy Gilmans
WRR-Little Tipica Orch.
WWL-Lionel Ricau

**3:45 CST 2:45 MST**

Girl Alone, sketch (Quaker Oats): WDAF KVOO WKY KOA WFAA KPRC WOAI

Eton Boys: KOMA KWKH WWL KTRH KTSA WACO KRLD (sw-15.27)

Mad Hatterfields, sketch: KCRC KGFF WLW KVSO KTAT KADA WRR KNOW KTOK

KGGM-Closing Stock: Bit o' Rhythm
KGNC-Classified Ads
KMOX-Kitty Keene, Inc., sketch
KNOW-Nat Brandwynne's Orch.
KTUL-LeRoy, piano lesson
WSM-To be announced

**4:00 CST 3:00 MST**

March of Games: KTSA WWL KOMA KWKH KTRH KGGM KRLD KTUL WACO

Affairs of Anthony, sketch: KFDM KGKO KOB WREN

Mark Love, basso; Organ: KCRC KVSO KGFF KNOW KADA KBIX WRR

Houseboat Hannah, sketch (Lava Soap): WLW WDAF KOA WKY WFAA KPRC KVOO (sw-6.06)

KGNC-Sons of the West
KMOX-Barnyard Follies
KTAT-Dr. J. Frank Norris
KTOK-News
KTSM-Listeners Club
WOAI-Parent Teachers Ass'n
WSM-Tango Time

**4:15 CST 3:15 MST**

Your Family & Mine, sketch (Sealtest): WDAF WSM

Terry and the Pirates, sketch (Dari-Rich): WLW

Fran Allison, songs: WREN WOAI KVOO KFDM KGNC

So You Want To Be—, children's prgm.: KTSA WWL KGGM KOMA KWKH KTRH KTUL KRLD WACO

The Johnson Family, sketch: KCRC KGFF WRR KVSO KBIX KNOW KADA KTOK

KGKO-Cowboy Luke
KOA-Adventures in Charm
KOB-Church in the Wildwood
KPRC-Variety Prgm.
WFAA-The Goldbergs
WKY-Uncle Leo

**4:30 CST 3:30 MST**

Jack Armstrong, sketch (Wheaties): WLW (sw-6.06)

Cadets Quartet: WOAI KGNC WREN

Landt Trio: WSM KFDM KTSM KPRC

Don Winslow of the Navy, sketch: (sw-15.21)

News: The Castillians: KOMA KRLD KGGM KWKH KTSA WACO

To be announced: KNOW KADA

KGKO-Fair Questionaire
KOA-Strolling Songster

KTAT-Baptist Convention
KTOK-Highway Patrol
KTRH-Little Momies
KTUL-House of McGregor
KVOO-Facts for Feminine Ears
WDAF-Tena & Tim
WFAA-Dallas Council P.-T.A.: Musical Interlude: Fed. Women's Club
WKY-Home Life Happenings
WRR-Who's Who in Radio
WWL-Fountain Terrace

**4:45 CST 3:45 MST**

Vaughn de Leath, songs: KOB KGKO

Charles Sears, tnr.: WOAI KVOO KGNC

Tom Mix Straight Shooters: (sw-15.21)

The Castillians: KTUL

KFDM-Music by Cugat
KGGM-Yodeler
KGKO-Art for the Public's Sake
KNOW-Swing Session
KOA-For Milady
KOMA-YMCA Prgm.
KPRC-Jerry of the Circus
KTAT-Matinee Melodies
KTOK-Swingbillies
KTRH-Houston Safety Ass'n
KTSM-Amer. Family Robinson
KWKH-Aunt Elizabeth, the Story Lady
WDAF-Cowboy Bill

WFAA-The Mighty Show
WKY-News
WLW-Paul Sullivan, news
WREN-Rhythmusic
WSM-Market Reports
WWL-Harold Boehm

**5:00 CST 4:00 MST**

Don Winslow of the Navy, sketch (Krispies): WREN WLW

Organ Melodies: KTRH KRLD KOMA WACO KMOX KTSA KWKH KTUL KGGM

Adrian Rollini's Orch.: (sw-9.53)

Our American Schools, Dr. Belmont Farley: WSM WOAI KFDM KVOO (sw-9.53)

Dinner Musicale: KNOW

KGKO-Larry Sheridan
KGNC-Monitor Views the News
KOA-Denver Fed. Woman's Clubs
KOB-Friend of Libraries
KPRC-Birthday Club
KTAT-News: Melody Moments
KTSM-Around Town: News
WDAF-Dick Tracy, sketch
WFAA-Cadets
WKY-Easy Aces
WSM-Rhythm Time: Pan-American Broadcast
WWL-Dance Time

**5:15 CST 4:15 MST**

Malcolm Claire: News: KOA (sw-9.53)

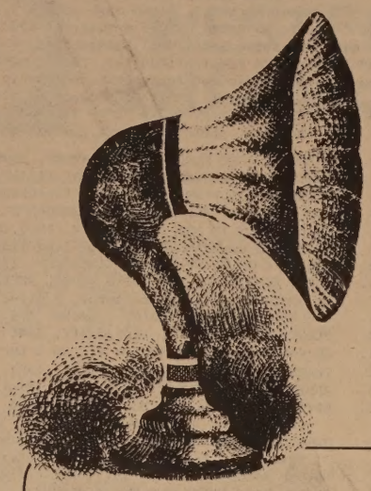
Howie Wing, sketch (Corn Flakes): KMOX WWL (also at 7:15 p.m.)

Jesse Crawford, organist: WREN KGKO KOB KFDM

Schemes That Skin: KNOW WRR KCRC KADA KGFF KVSO KTAT KBIX

Dick Tracy, sketch: WOAI WSM KWKH

KGGM-Big Brother Club
KGNC-Jack Armstrong, sketch
KOMA-Biltmore Greetings
KPRC-Mighty Show
KRLD-Brevities: Sports
KTOK-Terry & the Pirates
KTSA-Jungle Jim

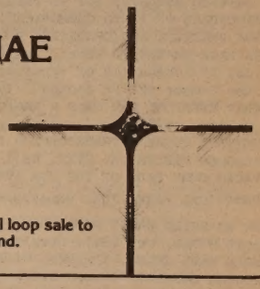
OLD RADIOS, ETC.
For Sale
BY G. STREETER

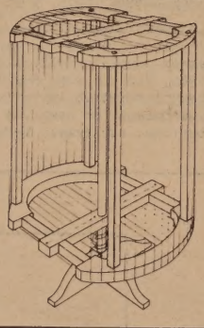
DEFOREST REPRODUCTION LOOP ANTENNAE

Beautifully prefinished and assembled with over 100 machined brass fittings and Bakelite parts, with a DeForest decal. Fits all D-7, 7A, 10, 12, and 17 sets. Wire not included.

PRICE $60.00 (includes postage)

NOTE: 10% of all loop sale to AWA Museum fund.





RADIOLA AG-814 LOOP ANTENNAE

Precut Mahogany frame with an etched brass name plate and 1924 instruction card. This loop is a great addition to any collection and fun to assemble. Includes radiola type wire.

NEW PRICE $37.50

(includes postage.)

NOTE: 10% of all loop sale to AWA Museum fund.

Radiola Grand Speaker Grills

Unfinished Mahogany is precision cut to the 1922 pattern. Needs only staining to complete your rare and unusual radio.

PRICE $15.50
postpaid

Radiola Antenna Wire

Multi strand copper wire with a brown braided Celulon cover just like the original 500' roll —

PRICE $45.00
postpaid
Smaller Lengths — 10¢ ft.

Radiola V & VI Wooden Tops

Always missing, this solid Maple reproduction is the crowning compliment to another uncommon set. Unfinished.

PRICE $19.50
postpaid

FOR INFO:

Photos available for $1.00 each. Includes wire sample.

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SATISFACTION ON ITEMS (NOT SAMPLES) GUARANTEED OR RETURNED FOR FULL REFUND.

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LIST #16.....CATALOGS, SERVICE MANUALS, PAMPLETS, ETC.
********************

1. MONEY BACK GUARANTEE if you are not completely satisfied. Just return it!
2. Because of the packing and postage, I request that orders are $10.00 up.
3. All books shipped POSTPAID, 4th class, book rate. Include postage for 1st. class and insured shipments.
4. This is a hobby, so please allow sufficient time....like two to three weeks.
5. ORDER BY NUMBER.....ie...M44, Van Sickle Radio Co, 1935.....$4.00

DISCOUNTS BASED ON DOLLARS SHIPPED ONLY GIVE SECOND CHOICE WHERE POSSIBLE
5% discount on orders over $50.00
10% discount on orders over $75.00
15% discount on orders over $125.00
********************

M2 Pictures from BELL TELEPHONE LABS, 1928, $3.50
M4 COMMERCIAL RECEIVERS, National Radio Institute, 1949, $1.00
M6 EVEREADY RADIO RECEIVERS, Service Manual, 1929 covers receivers series 30, with full description of the RF chasis and Audio chasis.....$20.00
M7 RADIO GUIDE, Dec 1935, large magazine, Vera Van on front cover, good condix.; March 1938 with Nadine Conner on cover; and May 1938 with Tyrone Power on the cover, $5.00 each.
M10 THE ENGINEERING MAGAZINE, Feb 1900, article on wireless telegraphy, $4.50
M11 ELECTRICAL WORLD, June 6, 1908 and May 23, 1908 (two) $4.50 each
M12 SCIENTIFIC AMERICAN supplement, March 30, 1912, $3.00
M22 WHOLESALE MERCHANDISERS, Radio, electrical, auto, etc. 1932, some wear$3.00
M26 WESTERN UNION TRAVELERS CABLE CODE, CAIRO Egypt stamp, small, old $3.00
M27 NATIONAL RADIO INSTITUTE, lesson 14, Radio sound reproducers, $2.00
M31 SALES CATALOG, SCHOOL, Radio Institute of America (from early Marconi Institute) this tells about the school, courses, many pictures, $5.00
M34 SCIENCE AND INVENTION Annual experimenters, Aug 1921, $15.00
M35 DETROLA radio receivers, chasis model 140 and model 101, both books, $5.00
M36 ELECTRONICS FOR BEGINNERS, by Merle Duston, 64 pages, 1946, $6.00
M41 RCA VICTOR SERVICE NOTES, for 1933, hard bound volume exc., $30.00
M43 Van Sickle Radio Co, St Louis, 1936 catalog, $4.00
M44 Van Sickle Radio Co, corner on back gone, otherwise OK, 1935 catalog$4.00
M45 Van Sickle Radio Co, catalog, perfect, 1935, $5.00
M46 Same as above, 1937, $4.00
M47 RADIO CIRCULAR CO, NY, 1934-5, good illustrations of sets, etc, $9.00
M49 ELECTRICAL RECORD, Feb 1926, over 190 pages, fine condition, $7.00
M51 AMATEUR RADIO HOW AND WHY OF WIRELESS with complete instructions on operation of receiving outfits. Maurice J. Grainger, 1932, a special edition prepared for SS KRESGE CO, paper back, excellent, $19.00
M55 PRINCIPLES OF RADIO COMMUNICATION, ICX staff, 1944, paper back $3.00
M56 CODE PRACTICE AND OPERATING PROCEDURE, ICS, 1942, $3.00
M64 THE MAKE-EM-BETTER sheet, large fould-out, pblished by Samson Electric Co, 17 schematics of receivers like the Hammarlund, Roberts HiQshowing the Samson AFX RF chokes. 201's and 199s used, $5.00
M66 WHAT EVERYONE WHO OWNS A RADIO SHOULD KNOW ABOUT STORAGE BATTERIES, Prest-O-Lite, 1925, small paper booklet, 3½ x 6½ x $2.00
M67 CONSTANT CURRENT TRANSFORMERS for Mazda Street Lights, 1915, $2.00
M70 THROUGH ELECTRICAL EYES, Bell Telephone Labs, 1928, $4.00
M71 RADIO COMM LAWS OF THE USA 1919 a paperback, $2.00
M74 PRACTICAL MATH, 1916 paperback, 64 pages, $2.00

M85 HOW TO BUILD RADIO RECEIVERS, Radio Craft #38, 1951, $4.00
M86 RADIO WORLD, Oct 1935, Excellent, $4.00
M93 SHORT WAVE GUIDE. 4 pages, missing, covers good.....so, $2.00
M100 EDMUND CATALOG, Edmund Scientific Co, 1962, $2.00
M103 SYLVANIA package including 10 page brochure and specs on Transmitting tubes, and two other sylvania booklets thrown in.....#4 $3.00
M104 GENERAL RADIO CO., Bulletin 932, Sept 1930 good, $3.00
M105 Sams Photofact and Tech Digest, July-Aug, 1952, $2.00
M106 National Co, lin e brochures good packet for only $2.00
M108 RME 84 receiver brochure and Hammarlund parts catalog, $2.00
M109 Collins Radio SMITR brochure 1947, 310B, and B & W full line catalog $3.00
M110 General Electric Packet of literature, 10 to 15 sheets, abt 1950 $2.00

B2 RADIO ENGINEEPING HANDBOOK, Henny, 1941, 944 pages, $5.00
B3 TROUBLESHOOTERS HANDBOOK, Ghirardi, Alfred A, first of this one that I'v had in stock, excellent condition, 8 x 11", 743 pages, loaded with troubleshooting info of all types of radios, 1943, companion book to "Modern troubleshooting info of all types of radios, 1943, companion book to "Modern Radio Servicing". All Ghirardi books sell fast, call...$27.50
B4 TWENTIETH CENTURY MANUAL OF RAILWAY AND COMMERCIAL TELEGRAPHY, Fred Meyer, 1902, 249 pages, well illustrated.....$15.00
B5 HAWKINS ELECTRICAL DICTIONARY, 1918, $2.00
B6 ELECTRICAL WORKERS STANDARD LIBRARY, 1911, seven complete volumes in fine condition, total, ALL seven $25.00
B7 NAVAL ELECTRICIANS TEXT BOOK....TWO VOLUMES, 1917, Bullard, both for $18.00
B8 MODERN RADIO SERVICING, Ghirardi, 1935, theory, construction and use of servicing equipment...always a good seller, $18.00
B15 RADIO UP TO THE MINUTE, Nilson 1929, a demand book.....$12.00
B17 SERVICING SUPEPHETERODYNES, Ryder, 1934, jacket, $7.00
B18 SERVICING RECEIVERY by means of Resistance Measurement, Ryder$6.00
B19 RADIOMAN 1c and CHIEF RADIOMAN, Navy training courses, 1940, paper cover, 406 pages.....be a Chief.....$5.00
B20 THE HOME RADIO how to make and use it, Verrill, 1922, $10.50
B20A RADIO FREQUENCY AMPLIFIERS and how to make them, Avery, 1922, Paper back, by the E. I. Co, NY $4.50
B21 STROWGER AUTOMATIC DIAL SYSTEMS....Automatic Electric Co., all dated in 1931-32-33 &34. This is in notebook form, and contains 23 catalogs and bullitens, with many, many pix of early equipment, phones and associated equipment. A little further info is on file that gives the title etc of each. Please send a SASE (large) if you would like to have this information.....$50.00
B22 RADIO OPERATOR'S LICENSE Q & A MANUAL, Milton Kaufman, Rider publisher, 6th edition, 1957, 720 pages, excellent, $5.00
B23 RADIO FOR THE MILLIONS, Popular Science, 1945, many illustrations $6.00
B24 TELEGRAPHY SELF-TAUGHT, Edison, Theo. A., 1902, illustrated, $20.00
B26 MUSIC APPRECIATION with the VICTROLA for Children, Victor Talking Machine Co, 1923, 288 pages, no illustrations, excellent, $10. 00
B27 RADIO SIMPLIFIED Kendall & Koehler, what it is....How to build and operate the Apparatus, 1923, illustrated, good condix. $14.00
B29 PRINCIPLES OF RADIO, Henny, 1929, $5.00
B30 TALES OF THE TELEGRAPH by Jasper Ewing Brady, USArmy, 1899, every chapter is interesting and exciting $18.00
B31 HAWKINS ELECTRICAL GUIDE #8, 1917, THE TELEGRAPH, $5.00
B32 THE HISTORY OF THE TELEPHONE, Casson, 1910, this old book is well illustrated and has always been a popular seller $18.00
B33 THE TELEVISION COMMERCIAL, McMahan, 1954, $8.00
B34 THE A B C OF ELECTRICITY, Meadowcroft, paper back, some water stain, many illustrations, first I'v seen, $8.00
B35 MOSERN RADIO SERVICING, Ghirardi, Alfred A., 1935, first edition, 706 illustrations, $15.00
B36 THOMAS A EDISON, Printed by John Hancock Insr. Co, issue 131, on Edison the man and his work....paper cover $4.00
B37 GERNSBACK'S EDUCATIONAL LIBRARY # 8, "Radio for Beginners 1938; #7 "How to Read Radio Diagrams"; #5 "Beginners Radio Dictionary"; #4 "All About Aerials", $4.50 each or all 4 for $16.00
B38 PRACTICAL RADIO, Moyer & Wostrel, 1924, Includes the testing of radio Receiving Sets, well illustrated, $10.00
B39 GERNSBACK PUBLICATIONS #11, "Point-to-Point Resistance Measurements"; #1, "Radio Set Analyzers" and how to use them; #8 "Radio Questions and Answers", 1932, $5.00 each or all four for $17.00
B40 WORLD'S GREATEST RADIO" 1927 FRESHMAN MASTERPIECE, catalog, 47 pages excellent photos and soft covers, $15.00

3. PRINCIPLES OF RADIO FOR OPERATORS, 1945, 344 pages, $2.00
4. AUDELS NEW ELECTRIC LIBRARY Vol II, 1942, $2.00
5. ELEMENTARY ELECTRICITY 1918, illustrated, $4.00
6. CYCLOPEDIA OF TELEPHONY AND TELEGRAPHY, 1911, FOUR VOLUME SET,$20.00
7. DO YOU WANT TO GET INTO RADIO?, 1940,(broadcast) $3.00
8. A TEXT OF GENERAL INFORMATION long lines of AT&T $8.00
13. RADIO, A STUDY OF FIRST PRINCIPLES, 1928, Burnes, $4.00
16. COYNE ELECTRICAL AND RADIO SCHOOL REFERENCE ENCYCLOPEDIA, 1943, THREE BOOK SET, 1212 pages total, 3 piece set for only $12.00
17. APPLIED PRACTICAL RADIO, 3 books, 1947, $9.00
20. ELECTRICAL AND RADIO DICTIONARY, 1945, $2.00
21. GE HAM NEWS, bound volume VI, No 1 thru Vol X No.6, $12.00
22. TRANSISTORS THEORY AND PRACTICE, 1957, Gernsback library, $2.00
23. RADIO PHYSICS COURSE, 1932 & 33, (two), Ghirardi, $10.95
24. PRINCIPLES OF RADIO ENGINEERING, 1936, good pictures and illustrations this is not a very good book, so I'M only asking %#$5.00
25. HAWKINS ELECTRICAL GUIDE, books 1 thru 8, fine set you need as a group. These will keep you busy all winter just looking at the pictures $20 set
27. MODERN RADIO PRACTICE, 1927, well illustrated, $6.00
29. BASIC RADIO TUBES AND THEIR CIRCUITS, 1942, $3.00
30. PRINCIPLES OF RADIO, 1938, Henny, illustrated, $4.00
36. WIRELESS TELEGRAPHY 1906, 207 pages, illustrated, $8.00
37. PRIMARY AND STORAGE BATTERIES 1945, $4.00
38. INDUSTRIAL ARTS ELECTRICITY 1956, $2.00
39. ELEMENTS OF RADIO Vol 1, 1943and vol.II, both, $10.00
41. RADIO AND ELECTRONIC DICTIONARY 1931, $4.00
42. DRAKES CYCLOPEDIA OF RADIO AND ELECTRONICS 1951, $4.00
43. THE FIRESIDE UNIVERSITY 1912, a science book, very interesting, $25.00
45. RADIO OPERATING QUESTIONS & ANSWERS 1948, $4.00
46. STORAGE BATTERIES SIMPLIFIED, 1919, $6.00
49. ARITHMETIC OF ELECTRICITY, 1906, $3.00
50. ESSENTIALS OF RADIO, 1948, $2.00
51. ESSENTIALS OF ELECTRICAL OF RADIO, 1944, $1.00
52. ESSENTIALS OF RADIO, 1948, reprinted for armed forces...$2.00
53. ESSENTIALS OF ELECTRICITY 1913, $4.00
54. BASIC ELECT FOR COMMUNICATIONS 1943, $2.00
56. THE ELECTROMAGNED, 1903, 3.00

AAA A rather complete collection of QST Magazines from 1925through 1968, $150.00 PLUS SHIPPING. Send a SASE for dates & condition.
BBB Anybody interested in Railway Express items....giveaways like pencils, photographs of agencies throughout the USA (over 150 of these), buttons, ash trays, badges, etc....SASE for list.....

**The UKO TEST-METER**

The UKO Test-Meter makes it possible for you to test your own 1½-90 volt Radio A-B Battery. Simple directions tell you how to test the A and B Sections of your battery. See for yourself if it needs replacement. No use discarding a live battery. Save time and money with a UKO Test-Meter.

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GENEVA, ILLINOIS

Shipped prepaid NEW! BEAUTIFUL CHROME $9.00

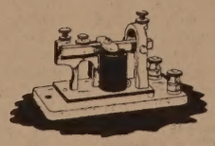
**DIRECTIONS**
**FOR TESTING A-B BATTERY**

Remove the radio plug from your battery and in its place insert the adapter plug supplied with meter. To test the A section of your battery insert the 2-prong terminal into the adapter plug. If the needle moves to 1.0 or higher on the bottom scale your battery is still good. To test B section insert the 3-prong terminal. If the needle moves to 75 or higher on the top scale your battery is still good. If the pointer fails to reach 1.0 or 75, a new battery will improve your radio reception.

SAFE! With the UKO Test-Meter there is no way in which you can harm your radio, your battery, or the Test-Meter.

57. THE FUNDAMENTALS OF ELECTRONICS 1945, $1.00
58. THE ELECTRIC TELEGRAPHIC CODE, large book, 1901, $25.00
63. THE RADIO AMATEURS HANDBOOK, 1943, Collins, A. Frederick, $7.50
65. CBS RADIO IN 1937 SURVAYS, a book for executives who wanted to know the number and quality of families in the radio audience, $8.00
66. ELECTRICITY, NOTES ON ELECTRICITY published by His Majesty's Stationery office, 1911, 236 pages, $8.50
68. TELEGRAPHY AND HOW TO LEARN IT, 1901, 89 pages, Frederic, $15.00
75. WIRELESS DIRECTION FINDING, 1947. $3.00
76. WIRELESS TELEGRAPH AND TELEPHONE HANDBOOK, Laughter, $15.00
81 RADIO COMMUNICATION THEORY AND METHODS WITH AN APPENDIX ON TRANSMISSION OVER WIRES, 1917. $6.00
82 DRAKES TELEPHONE HANDBOOK 1915, $12.00
83. RADIO FOR THE MILLIONS, 1943, Popular Science, $6.00

## WALTS EMPORIUM



WALT JACKSON

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## WESTERN UNION self winding clocks

WESTERN UNION CLOCKS MADE BY THE SELF WINDING CLOCK COMPANY 11" and 15" round and square metal cases.

SHIPPED FOB DALLAS,TX

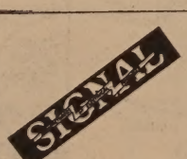
$100.00

15" with sweep second hand.....$110.00

84 TALKS ABOUT RADIO, Sir Oliver Lodge, 1925, 'with some pioneering History AND SOME HINTS AND CALCULATIONS FOR Amateur Radio'267 pages $5.00
85 ELEMENTS OF RADIO, Marcus , 1943, 699 pages, $4.00
86. GRAYBAR ELECTRIC CO, Catalog 100, 1081 pages, excellent condition and loaded with pictures and information.no date but seems to be early 1900, these are always in demand.....$30.00
87.

87. RCA VICTOR SERVICE NOTES for 1935, broadcast radio receivers, all-wave radio receivers, phonograph conbination instruments, 521 pages, excellent condition $15.00
88. RCA VICTOR SERVICE NOTES, same as above, but for 1937, $15.00
89. SAME AS ABOVE, BUT FOR 1838, $15.00
90. THE TEXT BOOK ON WIRELESS TELEGRAPHY, Rupert Stanley, 1918, many illustrations and pictures of early wireless, 337 pages $15.00
91. WIRELESS TELEGRAPHY AND TELEPHONY, D. Mazzotto, translated from the original Italian, 253 illustrations, 1906, 415 pages, $9.00
92. MATHEMATICS for Electricians and Radiomen, Cooke, 1942, $3.00
93. "this is a real sleeper..." Construction of RADIO PHONE AND TELEGRAPH RECEIVERS for beginners, by M. B. Sleeper, 1922, paper back, excellent condition, 160 pages, $20.00
94. RADIO UP TO THE MINUTE, Nilson, Arthur r., 1929, illustrated, $5.00
95. The Elementary Principles of WIRELESS TELEGRAPHY, by R. D. Bangay, 212 pages, some childs marks, $5.00
96. PRACTICAL WIRELESS TELEGRAPHY, by Elmer E. Bucher, 1917, loaded with illustrations and pictures, this book is always in demand, excellent condition. $20.00
97. THE HOME RADIO UP TO DATE, Verrill, A. Hyatt, How to make and use it, 1929, excellent condition, 146 pages, illustrated, $10.00
98. TELEGRAPHY AND TELEPHONY, Rhoads, with Railroad applications, 1924, this book is illustrated, in excellent shape , 518 pages $6.00
99. RADIO....A Practical Manual with questions and answers, Clode, Edward, 1924, 314 p, illustrated and pictures, 9.00
100. First Principles of RADIO COMMUNICATIONS, by Morgan, A.OP.1943 $4.00
101. MODERN WONDER WORKERS, ...THE BOYS'STORY OF INVENTION, over 300 illustrations,...more than a boys' book...more than just radio.... covers rail, telegraph, auto, 1924, $10.00
102. RADIO OPERATING questions and answers, by Nilson and Hornung,$4.00

103. RADIO for EVERYBODY, by Austin C. Lescarboura, 1922, 334 pages, many pictures of old gear, excellent book, $15.00
104. RADIO PHONE RECEIVING, Hausmann, et el, 1922, 4.50
105. EXPERIMENTAL ELECTRICITY FOR THE BEGINNER, Crow, Leonard, the you always wanted, but they did not print it then....this one in 1954, large, excellent shape, $10.00
106. A set of eight books, all headed as TELEPHONY, and includes Part I, II, IV, V, VII, VIII, IX, &X. dated 1911 & 1912, related to telephone with many many pictures, diagrams, illustrations of early telephone gear. good plus shape, all for $30.00
107. TEXT BOOK ON WIRELESS TELEGRAPHY, by Rupert Stanley, 1918. 344 p., ex lib, excellent illustrations and pictures, $12.00
108. Vol II, TEXT BOOK ON WIRELESS TELEGRAPHY, 1919, Valves and Valve apparatus, 353 pages, $18.00 or both volumes for $25.00
109 PRINCIPLES OF RADIOTELEGRAPHY, prepared in the extension division of the University of Wisconsin, by Cyril M. Jansky, 1919, 242 p. , ex lib, fine condition, well illustrated, $10.00
110. TRAITE' de TELEGRAPHIE ELECTRIQUE Production du courant electrique .....and a whole 900 pages of French, Oh Boy!, what a book of illustrations.1894, a little loose, but good shape $40.00
111. A HANDBOOK OF WIRELESS TELEGRAPHY its theory and practice, English print, 1914, 442 pages....yep, its illustrated also $8.00
112. A HANDBOOK OF WIRELESS TELEGRAPHY, SAME as above, 1909, $8.00
113. An Elementary Manual of RADIOTELEGRAPHY AND RADIOTELEPHONY for students and operators, by J. A. Fleming, 1918, 350p., $12.00
114. MANUEL de TELEGRAPHIE PRATIQUE, 1882, another fine book printed in French...hope you can read it....I can't, 659 pages $20.00
115. THE THERMIONIC VACUUM TUBE and its applications, Van Der Bijl, 1920, looks pretty impressive to me, must be good...$4.00
116. WIRELESS TELEGRAPHY, Gustav Eichhorn, English print, 1906 $10.00
117. RADIO ENGINEERING PRINCIPLES, Henri Lauer, 1920, $10.00



ALL TELEGRAPH INSTRUMENTS ARE SHIPPED PREPAID AND INSURED. ALL HAVE BEEN CLEANED, BUT NOT POLISHED.....ie, THEY WILL NEED A LOT MORE WORK IF YOU WANT A POLISHED, FIRST CLASS DISPLAY UNIT. ALL ARE CHECKED FOR WORKING CONDITION, AND YOUR SATISFACTION IS GUARANTEED. JUST A COMMENT ON "BUGS" AND KEYS....they just don't make em like they used to....you can tell the quality, you can feel the difference.....

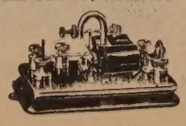
HAND KEYS, LIKE THE ONE TO THE LEFT $21.00

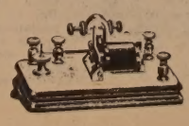
bugs, all models, various condix. $40.00

RELAYS, SOME GOOD CHOICES .... $40.00

SOUNDERS, A VERY GOOD SELECTION $$40.00

ALL OF THE ABOVE ARE GETTING HARDER AND HARDER TO FIND IN ANY CONDITION, SO I WOULD SUGGEST YOU GET ONE FOR YOUR DISPLAY SOON.





# RADIO SET DIRECTORY

IN presenting various sets in a directory of this kind, it is naturally possible to touch only the high points. We have therefore listed all outfits under a simple classification that will, we hope, be of great service to the public, as well as to the trade. We have attempted in this directory to list every set manufactured in this country, but although we have written a number of letters to all manufacturers, not all have replied. In order to make the directory complete, all sets manufactured by any one manufacturer listed have been included.

The Directory will be kept up to date, month by month. All manufacturers are invited to send monthly corrections as to the various features of the sets which they produce.

**Manufacturer: ALL-AMERICAN RADIO CORP., 4201 Belmont Ave., Chicago, Ill.**
**Trade Name: All-American Model "R"**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor**
**Loud Speaker: separate**
**Controls: Two**
**List Price: $90**

**Manufacturer: ATWATER KENT MFG. CO., 4700 Wissahickon Ave., Philadelphia, Pa.**
**Trade Name: Atwater Kent Model 10**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $80**

* * *

**Trade Name: Atwater Kent Model 12**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $100**

* * *

**Trade Name: Atwater Kent Model 19**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Two**
**List Price: $60**

* * *

**Trade Name: Atwater Kent Model 20**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $80**

* * *

**Trade Name: Atwater Kent Model 20 Compact**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $80**

* * *

**Trade Name: Atwater Kent Model 21 Compact**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $80**

* * *

**Trade Name: Atwater Kent Model 24 De Luxe**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $100**

**Manufacturer: BLUE SEAL MFG. CO., 538 So. Dearborn St., Chicago, Ill.**
**Trade Name: Blue Seal tuned radio frequency**
**Circuit: Tuned radio frequency**
**Batteries: Storage**
**Antenna: Outdoor or indoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $135**

**Manufacturer: CHELSEA RADIO CO., 150 5th St., Chelsea, Mass.**
**Trade Name: Chelsea No. 140**
**Circuit: Armstrong Regenerative 3-circuit**
**Batteries: Either**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: 1**
**List Price: $26**

* * *

**Trade Name: Chelsea Super-5**
**Circuit: 2 stages tuned radio frequency detector, 2 audio amplification**
**Batteries: Storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $50**

* * *

**Trade Name: Chelsea Super-6 tuned radio frequency**
**Circuit: 2 tuned radio frequency, detector 3 special audio amplifier**
**Batteries: Storage**
**Antenna: Either**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $60**

**Manufacturer: THE CROSLEY RADIO CORP. Cincinnati, Ohio**
**Trade Name: Crosley Pup**
**Circuit: Regenerative**
**Batteries: Dry cell**
**Antenna: Outdoor**
**Controls: Two**
**List Price: $9.75**

* * *

**Trade Name: Model IV-29**
**Circuit: Tuned Radio Frequency with Regenerative Detector**
**Batteries: Dry Cell or Storage**
**Antenna: Outside**
**Loud Speaker: Separate**
**Controls: Two**
**List Price: $29**

* * *

**Trade Name: Model V-38**
**Circuit: Tuned Radio Frequency with Regeneration**
**Batteries: Dry Cell or Storage**
**Antenna: Outside**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $38**

* * *

**Trade Name: Model R F L-60**
**Circuit: Tuned Radio Frequency**
**Batteries: Storage**
**Antenna: Outside**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $60**

* * *

**Trade Name: R F L-75**
**Circuit: Tuned Radio Frequency**
**Batteries: Storage**
**Antenna: Outside**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $75**

**Manufacturer: DAYTON FAN & MOTOR CO. Monument and Meigs Sts. Dayton, Ohio**
**Trade Name: O. E. M. 12.**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage.**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $75**

* * *

**Trade Name: O. E. M. 7**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $110.00**

* * *

**Trade Name: Day-Fan**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: One**
**List Price: $115.00**

* * *

**Trade Name: Dayroyal**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Built-in**
**Controls: One**
**List Price: $250.00**

* * *

**Trade Name: Dayphone**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: One**
**List Price: $105.00**

* * *

**Trade Name: Daycraft**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Built-in**
**Controls: One**
**List Price: $145.00**

* * *

**Trade Name: Daygrand**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Built-in**
**Controls: One**
**List Price: $195.00**

* * *

**Trade Name: Daytonia**
**Circuit: Tuned radio frequency**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Built-in**
**Controls: One**
**List Price: $300.00**

## Notice to Readers

**Detailed information respecting the following sets, or any other receiving sets, may be had on inquiry by addressing a letter to the Editor of the Set Directory, RADIO NEWS.**

**Manufacturer: DE WITT-LA FRANCE CO. 54 Washburn Ave., Cambridge, Mass.**
**Trade Name: Superadio Reactodyne R. F.**
**Circuit: Radio frequency**
**Batteries: Storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: Two**
**List Price: $56**

**Manufacturer: THE W. B. DUCK CO., 711 Adams St., Toledo, Ohio**
**Trade Name: Duck Type A-884 De Luxe Balanced**
**Circuit: Tuned Radio Frequency**
**Batteries: Both**
**Antenna: None**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $95**

* * *

**Trade Name: Type A 885 Six Tubes**
**Circuit: Tuned radio frequency**
**Batteries: Both**
**Antenna: None**
**Loud Speaker: None**
**Controls: Three**
**List Price: $150**

* * *

**Trade Name: Type A 886 Six Tubes**
**Circuit: Tuned radio frequency**
**Batteries: Both**
**Antenna: None**
**Loud Speaker: None**
**Controls: Three**
**List Price: $200**

**Manufacturer: ELECTRICAL PRODUCTS MFG. CO., 69 Sprague St., Providence, R. I.**
**Trade Name: Dymac Selecto-5**
**Circuit: Dymac Balanced radio frequency**
**Batteries: Storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Controls: Three Dials**
**List Price: $75**

**Manufacturer: ELECTRICAL RESEARCH & MFG. CO., Waterloo, Ia.**
**Trade Name: Superiorflex Model S-3**
**Circuit: Superiorflex—double reflex**
**Batteries: Dry cell or storage**
**Antenna: Outdoor**
**Loud Speaker: Separate**
**Control: One**
**List Price: $85.00**

**Manufacturer: ELECTRICAL RESEARCH LABORATORIES, 2500 Cottage Grove Ave. Chicago, Ill.**
**Trade Name: Erla Circloid Five De Luxe cabinet**
**Circuit: Tuned radio frequency, licensed under U. S. Navy patent**
**Batteries: Storage**
**Antenna: Both**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $77.50**

* * *

**Trade Name: Erla Circloid Five De Luxe cabinet**
**Circuit: Tuned radio frequency, licensed under U. S. Navy patent**
**Batteries: Storage**
**Antenna: Both**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $69.50**

* * *

**Trade Name: Erla Circloid Five De Luxe cabinet**
**Circuit: Tuned radio frequency, licensed under U. S. Navy patent**
**Batteries: Storage**
**Antenna: Both**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $142.50**

* * *

**Trade Name: Erla Circloid Five De Luxe cabinet**
**Circuit: Tuned radio frequency, licensed under U. S. Navy patent**
**Batteries: Storage**
**Antenna: Both**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $113.50**

**Manufacturer: CHARLES FRESHMAN, INC. 240-248 W. 40th St., New York City and 327 So. LaSalle St. Chicago, Ill.**
**Trade Name: Freshman Masterpiece Model 5-F-2**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $39.50**

* * *

**Trade Name: Freshman Masterpiece Model 5-F-5**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $60**

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**Trade Name: Freshman Masterpiece Model 5-F-4**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Separate**
**Controls: Three**
**List Price: $49.50**

* * *

**Trade Name: Freshman Masterpiece Concert Model**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price $75**

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**Trade Name: Freshman Masterpiece set of Franklin Console**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price $75**

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**Trade Name: Freshman Masterpiece Model 5-F-8**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $89.50**

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**Trade Name: Freshman Masterpiece Model 5-F-6 with table**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $82.50**

* * *

**Trade Name: Freshman Masterpiece Franklin Console**
**Circuit: Tuned radio frequency**
**Batteries: Either**
**Antenna: Outdoor or indoor (no loop)**
**Loud Speaker: Built-in**
**Controls: Three**
**List Price: $115**

*To be continued in the June* RADIO NEWS

1977 ad

**Now Available!**

FROM TIN FOIL TO STEREO

**Here's your second edition of the 1877-1959 phono classic, now extended to 1976.**

**Discover the story of recorded music in 30 fascinating chapters. Enjoy photos of exotic music machines from early cylinder phonographs to stereo. Own THE reference for phonograph enthusiasts. $19.95 hardcover, $9.95 soft.**

**SILVER GHOSTS: 76 beautiful pages of Scott radios, from the earliest 1940's. Puett's classic with pictures, old ads and diagrams. $10.00.**

**VINTAGE RADIO, 1887-1929: Pictorial story of pioneer days, 1,000 photos, 263 pages. $10.95 hard-cover, $8.95 soft.**

**A FLICK OF THE SWITCH, 1930-50: Fun picture reference of home, military, Ham, professional radio-TV-electronics, 312 pages. $10.95 hard-cover, $8.95 soft.**

**RADIO ENCYCLOPEDIA, Gernsback's 1927 classic beautifully recreated, 175 pages. $14.95 hard-cover.**

**RADIO COLLECTOR'S GUIDE, 1921-32: Data book with 50,000 facts on 9,000 models by 1,100 makers, 264 pages, $6.95.**

**1926-38 RADIO DIAGRAMS: Beitman's classic of 600 models, 240 pages, $7.00.**

**CIRCUIT DIAGRAMS for any pre-1951 radio, just $3.50. Send model number.**

**SEND TODAY to Vintage Radio, Dep't D, Box 2045, Palos Verdes, Ca. 90274. We pay postage. Calif. residents add 6%.**

_____ $_____
_____ $_____
_____ $_____
_____ $_____
TOTAL $_____

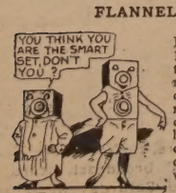
Name _____
Street _____
City _____ St. ____ Zip _____

**FREE! Age Guide with each order. FREE!**

**You'll Enjoy It!**

—RADIOTICS—

**FLANNELS OR BVDS?**




Item from the Lewiston, Maine, *Daily Sun* of Feb. 11: "Sets having 8 or more tubes generally give a lot of noise even if the input circuit is SHIRTED so that no static can get in." Circuits, that have heretofore been covered with patents, can now be covered with cast-off BVDs, or what you will.

*Contributed by C. E. March*

**THAT'S THE DOPE**

Medicinal suggestion from the Chicago *Evening Post* of Jan. 28: "If the floor is not covered with DRUGS the sound is likely to echo back and forth to the ceiling—." So, those of you who broadcast, give heed to these words of wisdom. But let us add a word of precaution—don't tell your artists what the *dope* is or the programs might be smelly.

*Contributed by M. C. Hobart*

REPARE RESTORE
OLD RADIO TUBES
SALE SERVICE

*ANTIQUE RADIO SERVICE*

O. H. McDONALD
948-9896

1606 LEBANON
DALLAS 75208

CBS, 50-YEARS-OLD

A three-hour program to celebrate the 50th anniversary of radio broadcasting by CBS will be aired on Sunday, September 18.

The title of the show is "CBS Radio at 50." The show will contain news, the first and second 25 years, entertainment, drama, sports, and music.

For air time, look to your local newspaper.

# KATE SMITH SPEAKS

Item in Ed Sullivan's famous newspaper column pays this tribute to a star: "Kate Smith, year in and year out, is the most satisfactory of radio performers"

For "Kate Smith Speaks," her recently launched program over CBS, Miss Smith includes a visit to New York's Chinatown in her talk on people and places

Kate will sing "I Surrender, Dear" on her regular Thursday hour, Nov. 3, 8 p.m. EST; 7 p.m. CST; 9:30 p.m. MST; 8:30 PST

When Kate visited New York's Hayden Planetarium, she found some fascinating material for her neighborly talks, as she chatted with Curator-in-Chief Dr. Clyde Fisher, who explained the intricacies of the projector

—Newspictures, Inc.

The open-air Art Exhibit at Washington Square, in New York City, will be another highlight on her "Kate Smith Speaks" broadcast, heard over CBS in the East only, on Tuesday, Thursday, and Saturday at 12 noon, EST

# The IDEAL HOME ENTERTAINER

**WHEREVER the Edison** Phonograph goes it becomes a part of the home.

The Edison Phonograph aids in the upbuilding of the home. It educates everyone and entertains while it educates.

There is no member of the household who is not entertained and benefited by this great phonograph. The baby in arms looks at it in rapture and wonderment.

From its infancy it is privileged to hear from the phonograph the best music and the highest art in the operatic world. Baby hears and is thrilled by the speeches of our great men. It is an incentive for him to become great.

**The great violinists** play daily for all the family. The most famous singers pour their melody into every room of your house.

Grandfather and grandmother, father and mother, sons and daughters, aunts and uncles and cousins, all are entertained in the same wonderful way. The funniest men joke and make fun and drive the wrinkles of care away with rollicking laughter.

Bands of a hundred pieces make the blood tingle with their grand selections. Bass drum and flute, cornet and horn, trombone and piccolo, cymbals and snare drum—all can be heard with the most vivid distinctness.

**There are orations and recitations,** comic monologues and vaudeville skits, and lullabies from sweet voiced singers. There is nothing that the Edison cannot play—nothing that it cannot do to entertain and cheer you up.

The greatest actors stalk before you shouting out their lines, and famous organists who bring forth angelic music from the ivory keys awe you with the sweet tones they drag from the great pipe organs. The organ selections on the fine Edison Moulded records are played by the wonderful pipe organs in the world's greatest churches in New York, London, Paris and Rome. You can hear the sweet sounds reverberating among the holy arches, echoing and re-echoing from nave to chancel as the last sweet notes die away.

**Then there are the light, jingling tunes** of the sweet stringed instruments—banjos, mandolins, and guitars. Negro melodies fresh from the Southland, rugged tunes of New England, sweet and low bird-like love ditties and marvelous tinkling summer airs that transport one into a world of sweet living and dreaming, are yours if an Edison is a part of the home.

**Everyone knows how beautiful,** soft and touching music is when played on a boat—row boat or sail boat or launch. Music from stringed orchestras is especially beautiful. The strains float out over the water to those listening on the shore. Have you ever heard a sweet toned mandolin whose strings were being touched lightly and melodiously by a deep souled musician? Have you ever heard this on the water? *Some musicians say it is the sweetest sound in all the world. Wouldn't you like to hear the notes of such a mandolin played by such a player? An Edison Phonograph will give you this very kind of music.*

**In the sick room** this wonderful instrument lulls the fevered brow and calms the fast beating pulse. The sweet strains of its many musical instruments bring looks of peace into the faces of those who have been suffering. Medical authorities agree that the sick should be cheered by music. Certainly no sick person should be deprived of music when an Edison Phonograph is so easily obtainable.

**There is no other entertainer** for the home that can equal or even approach the Edison Phonograph, for its great range covers every other instrument. This minute it is a piano. The next it is a singer and then it is a world famous band. Another change and it becomes a public speaker, and still another and it is an organ or a banjo.

The Phonograph is so much better than the Piano that the two can hardly be compared. You cannot get a good piano for less than $250. This is about ten times as much as a good Edison Phonograph costs. When you have the piano in the house what good is it? Maybe there is one member of the household who can play it a very little, but the others soon tire of the humdrum pounding which yields such little music.

**Now and then** a friend comes in who can play a little. The rest of the time the piano is closed and silent, depreciating in value with every year that passes over its dusty old head. A piano means expensive music lessons and expensive music. An organ means the same thing. So does a violin or any other instrument.

**Now let's see about the Edison Phonograph.** You can get one of the BEST Edisons for a small sum and the moment it enters the home it is ready to play anything. It is EVERY instrument under the sun combined into one.

It plays as well as the best piano player plays a piano. A little five-year-old can learn how to play it in five minutes. The BEST record costs no more than a piece of fairly good sheet music and the records last forever.

Then what a great number of records there are. You have 15,000 from which you may choose.

The Edison Phonograph, weighing as it does only a few pounds, may be moved from place to place without trouble.

One of the great advantages of having an Edison Phonograph is that the latest music may be brought into the home a few days after it is out.

## Edison AMBEROL Records

### Edison Amberol Records and the Attachments for Playing Them

DESPITE the fact that they have been on the market for several months comparatively few Phonograph owners know of them and realize the wonderful advancement made in Phonographic reproduction when Edison Amberol Records were announced.

For years, we have heard the complaint that Edison Records were too short. Mr. Edison and his associates, after a series of exhaustive experiments, produced the new Amberol Record which, in the opinion of those already possessing machines equipped with attachments for playing them, overcomes all the objections to and at the same time embodies all the excellent qualities of the shorter Record.

The most important feature of the Amberol Record is a recording thread of 200 lines to the inch as against 100 on the Standard Record. By this ingenious means more than twice the playing length is secured without increasing the length or diameter of the Record itself.

Since the finer thread required a smaller reproducing point it became necessary to find a new composition that would successfully resist the wear of this smaller sapphire. The successful and accurate moulding of a 200 thread record, formed of a much tougher composition, also necessitated changes and refinements in our moulding process.

More than two years have been spent in experimenting to secure these results, the work of several experts being constantly directed and supervised by Mr. Edison.

The Edison Amberol Record is the most wonderful production of its kind that the world has seen. The

## Edison AMBEROL Records

1909

engraved sound waves are so minute that the eye cannot follow them, yet the sounds are reproduced even more clearly, more naturally and more sweetly than on the Standard Records. At the same time they are more durable and will consequently wear longer.

Edison Amberol Records are sold at 50c. each, making them the lowest priced records now sold, considering also that they will play longer than any other talking machine record before the public at the present time.

The Standard or Two-Minute Records, retailing at 35c. each, will be continued without change.

#### The Attachments

With the advent of this finer record it became necessary to offer attachments whereby the new records might be played upon old Phonographs so that users would find it necessary to buy a new machine in order to play the new records.

Two attachments are required for this purpose. The first is a differential gear, which it is comparatively easy to attach to any Edison Phonograph and which, by changing the speed of the arm carrying the Reproducer, makes it possible to play either the Two-Minute Standard or Four-Minute Amberol Records. The second is a new Reproducer with a fine enough reproducing point so that it can be used in the finer engravings of the new records.

The attachments are sold at the following prices:

| | |
|---|---|
| For Gem Phonograph . . . . . | $4.00 each |
| For Standard Phonograph . . . . . | 5.00 " |
| For Home and Triumph Phonographs . | 7.50 " |

These attachments are now on sale at all dealers', who will either equip Phonographs with them or explain the method of attaching to the purchaser.

Rates for THE HORN SPEAKER
One year.....$5.50
Two years.....9.00
Special rates for one year (mailed in envelope)
First class.....$8.50
Air mail.....$12.00
Foreign air mail...16.00
Mail address: THE HORN SPEAKER
Box 12
Kleberg TX 75145

# MART

**Classified ad rate: 6¢ per word.**
**Photo ads: $2.00 extra.**

**Deadline: 20th of the preceding month.**

## MISC.

"RADIO AGE" a radio magazine devoted to wireless and early broadcast eras. Contains interesting articles written by collectors, articles published in early radio magazines, lots of reprints of famous radio ads, and a classified section for buying or selling radio and electronic items. Subscribe at

$7.50 per year for ten issues. Mail check or money order to Radio Age, 1220 Meigs Street, Augusta, Georgia 30904.

## FOR SALE OR TRADE

FOR SALE: Old radios, phonographs, fishing tackle & cameras. Buy - sell - swap. French W.W. I radio dated 1915. Box intact, inside not original. Poor condition $45.00 plus shipping.
Pro Antiques, 11 Paterson Ave., Midland Park N.J. 07432.
Phone: 201 652-7453
Friday 5 to 7 pm, Saturday 10:30 to 5.

NOW YOU CAN replace those torn and tattered early battery radio cables. We have now in stock a limited supply of four and six conductor cloth knitted sheathed cable (brown). Send your order to Olde Tyme Radio Company, 2445 Lyttonsville Rd., Silver Spring MD 20910. Four conductor-0.40/ft. Six conductor-0.50/ft.

WILL TRADE RCA 3BX671 classic portable see article April 1977 HORN SPEAKER, also Silver Marshall model 30 chassis & panel assembly.
WANT Riders 1 & 3, pre-1925 radios & books.
T. Wickstrom, 8290 Hidden Bay, Lake Elmo MN 55042.

FOR SALE: Philco Cathedral radio, model 90. Operating, clean - $100.00. Also have assortment of odd table radios. Some pre WWII, some post WWII. All in good condition. If interested write Olde Tyme Radio Company, 2445 Lyttonsville Rd., Silver Spring MD 20910.

WD11 Replacements $15 per pair (2), Special Sept.only WD11A, B or R $10. each.
Radiola Battery Set Service Manual 1922-1927 $5., 35 pages covers all Radiola B.S.'s and ten Radiolas not covered in Riders, 30 pictures, 40 diagrams, NO material taken from Riders.
Leutz and Pliodyne service Manual 1922-1927 $5., 40 pages.
FREE: any two items above, to any one who can send a Riders Volume 16 to 23 index - to be copied and returned.
Ken Hanson, 3403 Broadway, Long Beach California 90803.

FOR SALE: Solid-State A, B and C power supply. Send SASE for information to: G. Schneider, 6848 Commonwealth Blvd., Parma Hgts., Ohio 44130.

VINTAGE TUBES $1.00 and up, others from 29¢ each. All tested, boxed and guaranteed, list 25¢.
Connolly, P.O. Box 1333H, Sun Valley CA 91352.

FOR SALE: Vintage battery radios and horns for the begining collector. Send SASE to Arthur Harrison, 1021 Falcon Drive, Columbia MO 65201.

## FOR SALE OR TRADE

FOR TRADE: Edison Cylinder Ediphone with stand.
1923 Simplex Telegraph set, U.S. Army type - EE - 76. Would like trade in early radio.
Ross Mason, 641 South Georgia, Mason City, Iowa 50401. Phone: 515-423 4687.

FOR SALE OR TRADE: Crosley 51, 75; King Neutrodyne; Radiola VIII; Aeriola Sr.; AKs; others and literature. Send SASE for list.
Wanted: Cabinet for DeForest F-5; Thordarson 1/4KW spark transformer.
Jim Collings, 2218 Woodard, Abilene Texas 79605.

REPRODUCED schematics for TV and 1928-1948 radios. Alignment included free upon request. Prompt, quality service for $2.00 each with: Antakamatics, c/o James Antaki, 311 Bear Ridge Rd., Pleasantville N.Y. 10570

FOR SALE - Another offering of early radio and wireless material, tubes, parts, catalogues, literature, and magazines. SASE for list.
Willis Otto WØDC, 2009 West 10th St., Davenport, Iowa 52804.

BLANK BAKELITE PANELS - cut to size, 1/16" to 3/8" thick. Fabricating and engraving services available. SASE for pricing sheet.
Parsons, WB1BVO, 22 Forest St., Branford CT 06405.

FOR SALE: Send SASE for list of radio magazines, literature, catalogs, tubes and miscellaneous radio parts to: G. B. Schneider, 6848 Commonwealth Blvd, Parma Hgts, Ohio 44130.

UV99 and WD11 Adaptors. Use any UX base tubes $5.50 ea. PP U.S.A. 2 for $10.00 either type.
K. Parry, 17557 Horace, Granada Hills CA 91344.

FOR SALE: Many battery & AC radios, parts, tubes, speakers. Send large SASE. Kevin Bosomworth, 911 Old Marian Rd., N.E., Cedar Rapids, Iowa 52402.

HAVE SCARCE OLD RADIO - TV tubes. Also some old radios. SASE for prices. Harold's Radio, 3106 N. 3rd., Harrisburg PA 17110.

MICROPHONE COLLECTION FOR SALE - send SASE for list. Paul Giganti, 2429 San Carlos Ave., San Carlos CA 94070.

FOR SALE: Selling Rider's, early Sams', Supreme, also factory manuals on vintage radios. Write Beitman, 1760 Balsam, Highland Park IL 60035.

## WANTED

WANTED: Any radio fan magazines. Also, any radio magazine with commercial broadcast or star information. Examples--"Radio Guide, Radio Stars, Radio-TV Mirror," etc. Also

## WANTED

"Photoplay" magazines. 1 or 100.
Fred L. Davis, 5106 Skippy Street, Memphis, Tennessee 38116.

WANTED: COLONIAL GLOBE AC set, any MARTI and AMPLION HORN DRIVER. SEND SASE for list of items for sale or trade.
Richard Cane, 8391 N.W. 21st, St. Sunrise FL 33322.

WANTED: RADIOLA CONCERT RECEIVER CRYSTAL SET. Will pay $80.00 in mint condition. ALSO WANT OTHER CRYSTAL RADIOS AT SIMILAR HIGH PRICES. Leonard, 109 Greenway, Albertson N.Y. 11507. Ph: 516 621 2581.

WANTED: Practical experiences in casting new dials, knobs, using analdite epoxy. Colouring properties, before/after casting?
Darcy Brownrigg, Chelsea, Quebec JOX INO, CANADA.

I AM LOOKING for a short wave converter, any kind RME Gonset Tunaverter etc.- any good one that covers short wave, 19 - 25 - 30 meter etc.
Henry Ecklund, 961 Prosperity Ave., St. Paul MN 55106.

WANTED: A schematic wiring diagram for a McMurdo Silver Masterpiece V receiver, purchase or loan for copying. Daniel Gaidosz, 342 West River Road, Orange CT 06477.

WANTED: Silvertone table radio 1937 Model #57F-4500 Black, 57F-4505 Ivory, 1939 Airline table radio #S-462-C-420 Brown, #S-462-C-421 Ivory.
C. A. Perkes, Box 148, Burlingame CA 94010.

WANTED: Scott, McMurdo Silver, Lincoln, and other classic receivers. Also pre-1930 battery sets, speakers, mikes, etc. J. E. Cunningham, 23W 675 Ardmore, Roselle IL 60172.

$1.00 for the newly published booklet "A Pocket Guide to Antique Radio Collecting." Antique Radio Press, Box 42, Rossville IN 46065.

WANTED:: Adams-Morgan RA-6 receiver. Cash or trade. Hoffman, 2570 Falcon Street, E. Meadow N.Y. 11554.

WANTED: Dead or alive Federal 61 radio parts, transformers, sockets, coils, etc. Lee Williams, 733 N. 199th, Seattle WA 98133.

WANTED: W-E double button broadcast microphone. A. Havyatt, 37B The Point Road, Woolwich, N.S.W., 2110 Australia.

WANTED: Radios using Kellogg 401 tubes; dial plates (2) for AK Breadboard tuner type 11.
Rosenthal, 507 S. Maryland Ave., DE 19804.

WANTED: Phonographs - Buy - Repair (All Parts); Needle Boxes; Display Items, etc.
New Address: Jerry Madsen, 1372 Park Road, Bloomington MN 55420.

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# PUETT ELECTRONICS

P.O. BOX 28572 DALLAS TEXAS 75228

PUBLISHERS OF

THE CLASSIC RADIO NEWSLETTER

(send 13¢ stamp for newsletter sample)

LIST NO. 16A

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01A, 99, WD-11, etc. when in stock, ANTIQUE RADIO SETS AND TEST GEAR, ANTIQUE RADIO BOOKS, AND OTHER "one at a time" items-- list sent by first class mail four to six times a year by subscription -- $2.00 per year.

**BALLAST TUBES** send for catalog.

THE PUETT ELECTRONICS SUPER ANTENNA - GROUND SYSTEM plans $2.

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(5) WHEN WAS THAT OLD TUBE MADE? by James R. Wilkins $2.00
(6) SILVER GHOSTS by J. W. F. Puett - classic sets by E. H. Scott $10.00
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CUSTOMER SATISFACTION GUARANTEED. If you are not satisfied with your order for any reason, tubes may be returned within ten days for refund or replacement with exception of tubes which are shorted or have open filaments. It will be assumed that returned tubes with open filaments or shorts were damaged in shipment. Shipping damage claims will be handled promptly through the post office on insured orders. PUETT ELECTRONICS assumes no liability for orders which are not insured, and no liability beyond that which is covered by postal insurance. The tubes listed herein are either new, military pull-outs, factory over-purchases, or used. If only new tubes in original cartons are acceptable, add 10% to the total cost of your tube order. REFUNDS are mailed with your invoice for out-of-stock merchandice. ALL TUBES ARE THOROUGHLY TESTED ON A MUTUAL CONDCTANCE TUBE CHECKER BEFORE SHIPMENT. ALL TUBES MUST MEET NEW TUBE STANDARDS WHEN CHECKED. All prices are subject to change without notice. All tube prices listed herein supersede prices in previous lists and ads. We offer free technical advice for a 13¢ stamp or you may call J. W. F. Puett at 214-279-8309 NO LATER THAN 10:00 PM CENTRAL STANDARD TIME - PLEASE.

## ANTIQUE RADIO TUBES

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | | 6C6 | $4 | 6SG7 | $4 | 7J7 | $4 | 12SK7 | $3 | 30 | $5 | 71A | $7 | 1203 | $4 |
| | | | | | 6C7 | $4 | 6SH7 | $3 | 7L7 | $4 | 12SL7 | $3 | 31 | $4 | 75 | $4 | 1232 | $4 |
| | | | | | 6C8 | $4 | 6SJ7 | $3 | 7Q7 | $4 | 12SN7 | $3 | 32 | $4 | 76 | $3 | 1273 | $4 |
| | | | | | 6D6 | $4 | 6SK7 | $3 | 7R7 | $4 | 12SQ7 | $3 | 33 | $4 | 77 | $4 | 1852 | $3 |
| | | | | | 6D7 | $4 | 6SL7 | $3 | 7S7 | $4 | 12SR7 | $3 | 34 | $4 | 78 | $4 | 1853 | $3 |
| | | | | | 6D8 | $4 | 6SN7 | $2 | 7V7 | $4 | 12V6 | $3 | 35 | $4 | 79 | $4 | 9002 | $3 |
| | | | | | 6E5 | $5 | 6SQ7 | $3 | 7W7 | $4 | 12X4 | $2 | 35A5 | $4 | 80 | $3 | 9003 | $3 |
| | | | | | 6E6 | $4 | 6SR7 | $3 | 7X7 | $4 | 12Z3 | $2 | 35B5 | $2 | 81 | $6 | 9004 | $4 |
| | | | | | 6E7 | $4 | 6SS7 | $3 | 7Y4 | $4 | 14A4 | $4 | 35C5 | $2 | 82 | $3 | VR-90 | $2 |
| | | | | | 6F5 | $4 | 6ST7 | $3 | 7Z4 | $3 | 14A5 | $4 | 35L6 | $3 | 83 | $3 | VR-105 | $2 |
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| | | | | | 6G6 | $3 | 6U7 | $5 | 12A8 | $4 | 14C5 | $3 | 35Z5 | $3 | 117L7 | $5 | XXL | $4 |
| | | | | | 6H6 | $2 | 6V6 | $2 | 12AH7 | $3 | 14C7 | $4 | 35Z6 | $4 | 117M7 | $5 | XXFM | $4 |
| | | | | | 6J5 | $3 | 6V7 | $4 | 12AT6 | $2 | 14E6 | $4 | 36 | $4 | | | | |
| | | | | | 6J6 | $2 | 6X4 | $2 | 12AT7 | $2 | 14E7 | $4 | 37 | $4 | | | | |
| | | | | | 6J7 | $4 | 6X5 | $2 | 12AU6 | $2 | 14F7 | $4 | 38 | $3 | | | | |
| | | | | | 6J8 | $4 | 6Y5 | $3 | 12AU7 | $2 | 14F8 | $4 | 39 | $3 | | | | |
| | | | | | 6K5 | $3 | 6Z4 | $3 | 12AV6 | $2 | 14H7 | $4 | 40 | $7 | | | | |
| | | | | | 6K6 | $3 | 6Z5 | $3 | 12AX7 | $2 | 14J7 | $4 | 41 | $4 | | | | |
| | | | | | 6K7 | $4 | 6Z7 | $2 | 12B7 | $4 | 14N7 | $4 | 42 | $4 | | | | |
| | | | | | 6K8 | $4 | 6ZY5 | $3 | 12B8 | $4 | 14Q7 | $4 | 43 | $4 | | | | |
| | | | | | 6L5 | $4 | 7A4 | $4 | 12BA6 | $2 | 14R7 | $4 | 44 | $3 | | | | |
| | | | | | 6L6 | $3 | 7A5 | $3 | 12BE6 | $2 | 14W7 | $4 | 45 | $6 | | | | |
| | | | | | 6L7 | $4 | 7A6 | $4 | 12C5 | $3 | 14X7 | $4 | 47 | $7 | | | | |
| | | | | | 6N5 | $5 | 7A7 | $4 | 12C8 | $4 | 15 | $7 | 48 | $4 | | | | |
| | | | | | 6N6 | $4 | 7A8 | $4 | 12F5 | $3 | 19 | $4 | 49 | $4 | | | | |
| | | | | | 6N7 | $4 | 7AE7 | $4 | 12H6 | $3 | 22 | $7 | 50 | $7 | | | | |
| | | | | | 6P5 | $3 | 7AG7 | $4 | 12J5 | $3 | 24A | $5 | 50A5 | $3 | | | | |
| | | | | | 6Q7 | $4 | 7B4 | $4 | 12J7 | $4 | 25A6 | $3 | 50B5 | $2 | | | | |
| | | | | | | | | | | | 25A7 | $3 | 50C5 | $2 | | | | |
| | | | 1T5 | $3 | 5Y4 | $3 | | | | | | | | | | | | |
| | | | 1U4 | $3 | 5Z3 | $3 | | | | | | | | | | | | |
| | | | 1U5 | $3 | 5Z4 | $3 | | | | | | | | | | | | |
| | | 1G4 | $4 | 1V | $5 | 6A3 | $5 | | | | | | | | | | | |
| | | 1G5 | $4 | 2A3 | $7 | 6A4 | $6 | | | | | | | | | | | |
| | | 1G6 | $4 | 2A4 | $5 | 6A5 | $4 | | | | | | | | | | | |
| 0D3 | $2 | 1H4 | $5 | 2A5 | $4 | 6A6 | $4 | | | | | | | | | | | |
| 0Z4 | $3 | 1H6 | $4 | 2A6 | $4 | 6A8 | $4 | | | | | | | | | | | |
| 1A1 | $5 | 1J6 | $4 | 2A7 | $5 | 6AB4 | $3 | | | | | | | | | | | |
| 1A3 | $4 | 1L6 | $8 | 2B7 | $4 | 6AB7 | $3 | | | | | | | | | | | |
| 1A4 | $4 | 1LA4 | $4 | 2E5 | $5 | 6AC5 | $3 | | | | | | | | | | | |
| 1A5 | $4 | 1LA6 | $4 | 2X2 | $3 | 6AC7 | $3 | | | | | | | | | | | |
| 1A6 | $3 | 1LB4 | $4 | 3A4 | $3 | 6AK5 | $2 | | | | | | | | | | | |
| 1A7 | $3 | 1LC5 | $5 | 3A5 | $3 | 6AL5 | $3 | | | | | | | | | | | |
| 1B4 | $4 | 1LC6 | $4 | 3A8 | $4 | 6AL7 | $5 | | | | | | | | | | | |
| 1B5 | $4 | 1LD5 | $4 | 3C6 | $4 | 6AQ5 | $2 | | | | | | | | | | | |
| 1B7 | $4 | 1LE3 | $4 | 3LF4 | $5 | 6AT6 | $2 | | | | | | | | | | | |
| 1B8 | $4 | 1LF3 | $4 | 3Q5 | $3 | 6AU6 | $2 | | | | | | | | | | | |
| 1C1 | $4 | 1LG5 | $4 | 3V4 | $3 | 6AV6 | $2 | | | | | | | | | | | |
| 1C5 | $3 | 1LH4 | $4 | 5AZ4 | $5 | 6AX5 | $2 | | | | | | | | | | | |
| 1C6 | $3 | 1LN5 | $4 | 5R4 | $2 | 6B4 | $5 | | | | | | | | | | | |
| 1C7 | $5 | 1N5 | $4 | 5T4 | $2 | 6B5 | $5 | | | | | | | | | | | |
| 1D5 | $5 | 1N6 | $4 | 5U4 | $2 | 6B6 | $5 | | | | | | | | | | | |
| 1D7 | $5 | 1P5 | $4 | 5V4 | $2 | 6B7 | $5 | | | | | | | | | | | |
| 1E5 | $5 | 1Q5 | $4 | 5W4 | $2 | 6B8 | $4 | | | | | | | | | | | |
| 1E7 | $4 | 1R5 | $2 | 5X4 | $2 | 6BA6 | $2 | | | | | | | | | | | |
| 1F4 | $4 | 1S5 | $2 | 5Y3 | $3 | 6BE6 | $3 | | | | | | | | | | | |
| 1F5 | $4 | 1T4 | $3 | | | 6BJ6 | $2 | | | | | | | | | | | |
| 1F6 | $4 | | | | | 6C4 | $2 | | | | | | | | | | | |
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SEPTEMBER 75c

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1977

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